TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-13-02** **Date: 20-02-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Srirampura Village in Ward No. 05, Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No.03, First cross, First Main, Ramachandrappa Layout, Arebic College post, erannapalya Bangalore-560 045.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/205/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-02-2017
Sample ID No	:	2017-02-13-02-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-02-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.98	–
2	Finess by Air permeablity method (m^2/kg, Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-13-02** **Date: 20-02-2017**

Sample ID No : **2017-02-13-02-01**

/

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
	28 Days	Test Report Date Due On 13-03-2017	Not less than 53 N/mm^2

Note:

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Prepared by
Harshitha

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 2/2
****End of Report****

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-13-02** **Date: 13-03-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Srirampura Village in Ward No. 05, Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No.03, First cross, First Main, Ramachandrappa Layout, Arebic College post, erannapalya Bangalore-560 045.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/205/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-02-2017
Sample ID No	:	2017-02-13-02-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-02-2017

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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AS ward no 5

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-13-02** **Date: 18-02-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Srirampura Village in Ward No. 05, Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No.03, First cross, First Main, Ramachandrappa Layout, Arebic College post, erannapalya Bangalore-560 045.
Customer Reference	:	EE/BTP/BBMP/E-PMT/205/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-02-2017
Sample ID No	:	2017-02-13-02-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-02-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	326	326	6.52	93.48	90-100
3	10 mm	2189	2515	50.3	49.7	25-55
4	4.75 mm	2343	4858	97.16	2.84	0-10
5	Pan	142	5000	100	0	–

AE Ward No 5

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-13-02** **Date: 18-02-2017**

Sample ID No : 2017-02-13-02-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**13.4**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56**	_
6	Water Absorption(%)	**0.19**	_
7	Aggregate crushing Value(%)	**22.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**21.6**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Harshitha

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-13-02** **Date: 18-02-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Srirampura Village in Ward No. 05, Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No.03, First cross, First Main, Ramachandrappa Layout, Arebic College post, erannapalya Bangalore-560 045.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/205/2015-16
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-02-2017
Sample ID No	:	2017-02-13-02-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-02-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	670	670	4.5	95.5	90-100
3	20 mm	5390	6060	40.4	59.6	30-70
4	10 mm	4509	10569	70.5	29.5	10-35
5	4.75 mm	3890	14459	96.4	3.6	0-5
6	Pan	541	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-13-02** **Date: 18-02-2017**

Sample ID No : 2017-02-13-02-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.1**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.4**	
3	Specific Gravity	**2.68**	_
4	Bulk Density(Loose) (Kg/l)	**1.55**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.24**	_

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-02-13-02** **Date: 18-02-2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Srirampura Village in Ward No. 05, Byatarayanapura Sub Division.

Agency : Sri. Gopi Reddy, No.03, First cross, First Main, Ramachandrappa Layout, Arebic College post, erannapalya Bangalore-560 045.

Customer's Reference : EE/BTP/BBMP/E-PMT/205/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-02-2017

Sample ID No : 2017-02-13-02-03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 13-02-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	87	87	8.7	91.3	90-100	90-100	90-100	95-100
3	2.36 mm	103	190	19	81	60-95	75-100	85-100	95-100
4	1.18 mm	207	397	39.7	60.3	30-70	55-90	75-100	90-100
5	600 micron	189	586	58.6	41.4	15-34	35-59	60-79	80-100
6	300 micron	176	762	76.2	23.8	5-20	8-30	12-40	15-50
7	150 micron	198	960	96	4	0-10	0-10	0-10	0-15
8	Pan	40	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-02-13-02** **Date: 18-02-2017**

Sample ID No : 2017-02-13-02-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.76	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron	3.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-07-04** **Date: 12-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Srirampura Village in Ward No. 05, Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No.03, First cross, First Main, Ramachandrappa Layout, Arebic College post, erannapalya Bangalore-560 045.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/205/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-2017
Sample ID No	:	2017-04-07-04-01
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	07-04-2017

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus Fe 500	Fe500	8mm	0.389	548	655	19.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus Fe 500	Fe500	8mm	Satisfactory	Satisfactory

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Prepared By:
Harshitha

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-07-04** **Date: 12-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Srirampura Village in Ward No. 05, Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No.03, First cross, First Main, Ramachandrappa Layout, Arebic College post, erannapalya Bangalore-560 045.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/205/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-2017
Sample ID No	:	2017-04-07-04-02
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	07-04-2017

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus Fe 500	Fe500	10mm	0.611	558	672	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus Fe 500	Fe500	10mm	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-29-05** **Date: 01-04-2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Srirampura Village in Ward No. 05, Byatarayanapura Sub Division.

Agency : Sri. Gopi Reddy, No.03, First cross, First Main, Ramachandrappa Layout, Arebic College post, erannapalya Bangalore-560 045.

Customer's Reference : EE/BTP/BBMP/E-PMT/205/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-2017

Sample ID No : 2017-03-29-05-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	25/03/2017	01/04/2017	150.10 X 150.13 X 150.42	22535	8.320	371.8	16.5	16.9
2	Drain Concrete	M20	25/03/2017	01/04/2017	150.53 X 150.11 X 150.19	22596	8.298	388.7	17.2	
3	Drain Concrete	M20	25/03/2017	01/04/2017	150.10 X 150.18 X 150.43	22542	8.333	381.0	16.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-29-05** **Date: 22-04-2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Srirampura Village in Ward No. 05, Byatarayanapura Sub Division.

Agency : Sri. Gopi Reddy, No.03, First cross, First Main, Ramachandrappa Layout, Arebic College post, erannapalya Bangalore-560 045.

Customer's Reference : EE/BTP/BBMP/E-PMT/205/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-2017

Sample ID No : 2017-03-29-05-02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	25/03/2017	22/04/2017	150.10 X 150.13 X 150.42	22535	8.320	529.6	23.5	23.5
2	Drain Concrete	M20	25/03/2017	22/04/2017	150.53 X 150.11 X 150.19	22596	8.298	524.2	23.2	
3	Drain Concrete	M20	25/03/2017	22/04/2017	150.10 X 150.18 X 150.43	22542	8.333	538.8	23.9	

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